Joe Mitchell, Esq.

Mailing Address:

4521 Derby Lane Smyrna, GA 30082

Phone: (1996) 943-2981

(404)

August 22, 2006

U.S. PTO Commissioner for Patents P.O. 1450 Alexandria, VA 22313-1450

> Re: Patent Appeal Re-Submit Application Number: 10/657,977

Filing Date: 09/09/2003

First Name of Inventor: Allan Todd Berry

Response to Date Mailed: 8/14/06

RECEIVED

AUG 2 8 2006

GROUP 3600

Dear Sir:

In response to your Office Action of 8/14/06, left off of the Appeal, was the title of the section of "Argument" (as per the rules), so that has been added herein and resubmitted within 30 days as per your kind request.

Joe Mitchell, Esq.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Certificate of Mailing

I hereby certify that this paper is being deposited with the U.S. Postal Service via First Class Mail in an envelope addressed to:

Board of Patent Appeals & Interferences U.S. Patent and Trademark Office P.O. Box 1450
Alexandria, VA 22313-1450

on: Date of Mailing: G-22-2c06Printed Name of Depositor: Jcscph6 MitchellSignature: Jcscph6 MitchellDate of Signing: G-22-2c06

Ref:

Applicant/Appellant : Allan Todd Berry

Serial No.: 10/657,977 Filed: 09/09/2003

For: Process to Electronically Automate the Sorting of Chicken Feet in the Category of

Edible or Inedible

Examiner: David J Parsley Group Art Number: 3643

Re-Submitted Appeal Brief by Inventor/ Appellant of Obvious Rejection under 35 USC sec 103 (a) of Patent Application

Board of Patent Appeals & Interferences U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

RECEIVED

Sir:

AUG 2 8 2006

GROUP 3600

In response to the Office Action dated 3/13/06 ("Office Action"),

Inventor/Appellant appeals the rejection surrounding the obviousness issue under 35 USC

sec. 103 (See PTO's response numbers 3 – 4 in Office Action).

(i) Real Party in Interest

Allan Todd Berry, the inventor, is the real party in interest.

(ii) Related Appeals and Interferences

There are no related appeals, interferences, or judicial proceedings.

(iii) Status of Claims

Claims 1 through 23 have been canceled. Claims 24 and 25 have been rejected by the PTO in the latest Office Action. Appellant has amended Claims 24 and 25 to correct the rejection of lack of antecedent basis under 35 USC sec. 112 (See Office Action item 2). The PTO has accepted such amendment of the Appellant's claims to correct such antecedent basis' rejection. Appellant is appealing the rejection of Claims 24 and 25 for the rejection based on 35 USC 103 (a).

(iv) Status of Amendments

Appellant has filed an amendment, subsequent to Office Action and final rejection, to correct the rejection regarding lack of antecedent basis under 35 USC 112. Such amendment does not broaden the claims or change the substance of the claims in any way. The PTO has accepted such amendment.

(v) Summary of Claimed Subject Matter

Appellant's invention is for a process to electronically automate the sorting of chicken feet in the category of edible or inedible. There are two independent claims, one for the apparatus and one for the process (*See*, Claims Appendix). For a summary of the claimed subject matter defined by such claims, Appellant relies on the published Patent Application, marked as Exhibit A and attached hereto.

Appellant's invention comprises an industrial programmable logic controller (PLC) receiving input data from photoelectric and inductive sensors located at various locations on the picking and eviscerating lines (these are chicken lines that contain chicken feet and associated chicken body, respectively). The PLC has been programmed with an electronic model of the chicken line(s) process. The photoelectric sensors monitor line movement and verify the presence of chickens in shackles. The inductive sensors monitor trolley movement on the automatic rehanger. These sensors send signals back to the PLC via data bus communications. (*See*, page 1, column B, section 0008, lines 19 – 28). The means to communicate between the PLC and the sensors (as claimed in the independent claims) is the data bus communications cable.

The invention also monitors the presence of the chickens directly before the inspector station locations. There are inspector locations located along the chicken lines. (See, page 2, column A, section 0011, lines 13 -14). If the chicken feet are determined to be inedible, the inspector will press a button located at the inspector's station. This button interfaces with the electronic programmable logic card system and then the system identifies the ID of the whole bird and locates the associated chicken's feet on the picking line and the status of the chicken feet will be electronically set to "inedible." (See, page 2, column A, section 0011, lines 22 -26).

There are metal flags attached to the trolleys (except one) and there are large metal flags attached to one shackle on each picking and eviscerating lines. (See, page 2, column A, section 0013, lines 33-35). The flags allow for the electronic monitoring of the system. (See, page 2, column A, section 0013, lines 35 - 38).

(vi) Gr unds of Rejection t be Reviewed n Appeal

Appellant appeals the rejection by the PTO of claims 24 and 25 due to such claims being "obvious" under 35 USC sec. 103(a). Appellant appeals such decision based on four (4) reasons:

- (a) Several of the documents relied on by the PTO should not be considered "prior art."
- (b) The PTO has shown no basis to combine the documents cited as "prior art" as to make Appellant's invention "obvious."
- (c) The PTO does not take into account the secondary considerations, such as "commercial success," of Appellant's claimed invention.
- (d) If the documents are to be viewed as "prior art," the documents still do not disclose all the elements of Appellant's invention.

(vii) Argument

(a) Documents Presented by PTO Not all Prior Art

The first step in the <u>Graham</u> test requires one to determine the scope and content of the prior art. The test to determine what is and is not prior art is explained in the case <u>In</u> re <u>Clay</u>, 966 F. 2d 656, 23 USPQ 2d 1058 (Fed. Cir. 1992). Clay's patent application concerned a process for storing refined liquid hydrocarbon product in a storage tank having a dead volume between the tank and its outlet port. The process involved the placement of a gelatin solution into the tank's dead volume and later allowed the solution to gel. According to Clay, the addition of a gel-degrading agent would allow the gel to be readily removed from the tank. The PTO rejected Clay's application under section 103(a)

in part due to a reference to Syndansk. Syndansk called for the introduction of a similar gel into the underground, natural, oil-bearing formation in order to better channel oil flow during extraction.

The issue was whether the Syndansk patent should be considered prior art in applying section 103(a) to Clay's application. The test to determine what is "prior art" developed in In re Clay, 966 F. 2d 656, 23 USPQ 2d 1058 (Fed. Cir. 1992) was, as follows: (1) whether the art is from the same field of endeavor; and (2) if not, is the document or art reasonably pertinent to the particular problem with which the inventor is trying to solve.

Applying the two (2) part test to Clay's application, the Court found: (1) Syndansk is not from the same field of endeavor. Syndansk addressed the use of gel in unconfined, irregular volumes of natural subterranean formations, in extreme conditions; Clay, instead, manipulated the confined, dead volume of an artificial storage tank under ordinary atmospheric conditions. (2) And, Syndansk was found not to be reasonably pertinent to the particular problem with which the inventor is trying to solve. Syndansk dealt with the removal of oil from rock, while Clay's invention dealt with removal of oil from a storage tank. As the problem of Clay involved dissimilar structures and working conditions, the conclusion was that a person of ordinary skill would not have been led to consult the Syndansk patent for information bearing on the problem that Clay was trying to solve.

In this matter, the purpose of Appellant's invention is to track a chicken body and associated chicken feet using electronic means (a programmable logic card and sensors that feed information to the programmable logic card), and in the event the chicken feet are rejected by an inspector, then an inspector can push a button that rejects both the

chicken feet and associated chicken body (the inspector button interfaces with the programmable logic card). The primary aspect of Appellant's invention, then, is to match the chicken feet to the chicken body when the two are divided.

In applying the two part test from In re Clay to this matter, the German patent DE 4132830, cited by the PTO, deals with providing a machine-readable marking to hooks in a slaughterhouse to identify a suspended carcass. The purpose of the German patent is to identify a carcass using a machine readable label attached to a hook. The purpose of this German patent is not, like the current invention, to match a chicken body to chicken feet by means of sensors and a programmable logic card. The problem solved by the German patent is to determine where the carcass is in the process. The problem solved in Appellant's invention is to match a chicken body to its associated chicken feet. The German patent does not deal with matching the carcass to any other part.

Applying the two (2) part test of Clay to this, one concludes: (1) the two inventions are not from the same field of endeavor – the German patent deals with using a machine-readable marking on a hook and Appellant's invention deals with using sensors and a programmable logic card; and (2) the two inventions are not trying to solve the particular problem with which the inventor is dealing with – the German patent is trying to solve where the carcass is in the process while Appellant's invention is dealing with the problem of matching a chicken body to its associated chicken feet.

Thus, applying the two (2) part Clay test, the German patent should not be considered prior art.

The second patent that should not be considered as prior art, under the Clay test, is the patent to Linville, U.S. Patent No. 4,372,099. The purpose of the Linville invention is to

aid in the packing of poultry. The problem that Linville attempts to solve is determining an accurate weight of the poultry so as to accurately and effectively pack the poultry. The Linville invention does this by placing weighing stations throughout the process.

Appellant's invention does not involve packing poultry and does not even try to solve the problem of determining the proper weight of the resulting package.

Applying the two (2) part test of Clay to the Linville patent, one concludes: (1) the two inventions are not from the same field of endeavor – the Linville patent deals with using weighing stations throughout the process to determine an accurate reading of the poultry package and Appellant's invention deals with using sensors and a programmable logic card to match a chicken body to its associated chicken feet; and (2) the two inventions are not trying to solve the particular problem with which the inventor is dealing with – the Linville patent is trying to solve a packaging problem while Appellant's invention is dealing with the problem of matching a chicken body to its associated chicken feet.

Thus, applying the two (2) part Clay test, the Linville patent should not be considered prior art.

Without the German patent and the Linville patent as "prior art' documents,

Appellant's invention is un-obvious to one skilled in the art and therefore Appellant's

claims 24 and 25 should be allowed.

b. The Patent Office Examiner has shown no motivation to combine all the prior references

Obviousness is determined from the vantage point of a hypothetical person having ordinary skill in the art to which the patent pertains and must be analyzed from the standpoint of the invention *as a whole*, not the individual parts. See 35 U.S.C. sec. 103(a) (emphasis supplied).

"Virtually all [inventions] are combinations of old elements." Environmental Designs, Ltd. v. Union Oil Co., 713 F. 2d 693, 698 (Fed.Cir. 1983). In In Re Rouffet, 149 F.3d 1350, 47 U.S.P.Q. 2d 1453 (1998), it states that an examiner of a claimed invention can often find every element in the prior art, and if identification of each claimed element in the prior art was sufficient to negate patentability, very few patents would ever issue. So, rejecting patent applications solely by finding prior art corollaries for the claimed elements would permit an examiner to use the claimed invention itself as a blueprint for piecing together elements in the prior art to defeat the patentability of the claimed invention. That approach would be "an illogical and inappropriate process by which to determine patentability." Sensonics, Inc. v. Aerosonic Corp., 81 F. 3d 1566, 1570, 38 U.S.P.Q. 2d 1551, 1554 (Fed. Cir. 1996).

To prevent using hindsight, based on the invention itself, to defeat patentability of the invention, the examiner must show a motivation to combine the references that create the case of obviousness. Grain Processing Corp. v. American Maize-Products Co., 840 F. 2d 902, 5 USPQ 2d 1788 (Fed. Cir. 1988). In other words, the examiner must show reasons that the skilled artisan, confronted with the same problems as the inventor and with no knowledge of the claimed invention, would select the elements from the cited prior references for combination in the manner claimed. In Re Rouffet, 149 F.3d 1350, 47

U.S.P.Q. 2d 1453 (1998); MPEP 2142. An examiner cannot use hindsight in selection of references that comprise the case of obviousness.

When a rejection depends on a combination of prior art references, there must be some teaching, suggestion, or motivation to combine the references. See <u>In re Geiger</u>, 815 F. 2nd 686, 688 (Fed. Cir. 1987); see, also, <u>In Re Rouffet</u>, 149 F.3d 1350, U.S.P.Q. 2d 1453 (1998).

In this matter, the Patent Office has shown no motivation or suggestion or teaching to combine the prior documents referenced to show obviousness. The PTO bears the burden of establishing a prima facie case of obviousness and it bears the burden of identifying any suggestion, teaching or motivation to combine the prior references. *See*, In re Dembiczak, 175 F. 3d 994, 50 U.S.P.Q. 2D (BNA) 1614 (Fed. Cir. 1999).

Appellant, whether correct to do so or not, has shown, based on his 20 years of experience, that in his opinion that a person skilled in this art (for which he is) would not combine the prior art documents (See, Third Affidavit of Allan Todd Berry). But Appellant does not bear such burden, the PTO does.

The courts forbid the use of hindsight in selection of references that comprise the case of obviousness. In this matter, that is what is being done.

The Patent Office has looked at Appellant's patent application and has pieced together elements of other patents (or applications) and concluded that Appellant's invention is obvious. There has been absolutely no showing of a motivation to combine all these different documents to piece together Appellant's invention. So, if there is no motivation to combine all the documents, then Appellant's invention cannot be obvious.

c. The Patent Office must consider Appellant's evidence of secondary considerations of obviousness or n n-obviousness

In considering the evidence on the obviousness vs. non-obviousness issue, the Courts, even in <u>Graham</u> said (and as other courts have emphasized), it must include evidence on secondary considerations and it is error to exclude that evidence from consideration. <u>Stratoflex</u>, <u>Inc. v. Aeroquip Corp.</u>, 713 F. 2d 1530 (1983). The Federal Circuit has instructed that the secondary considerations and objective factors must be considered in every case, both by the courts and PTO. <u>Custom Accessories</u>, <u>Inc. v.</u>
<u>Jeffrey-Allan Industries</u>, <u>Inc.</u>, 807 F. 2d 955 (Fed. Cir.1986).

The Patent Office states in its last reply that the commercial success does not have a correlation to the claimed invention being novel or non-obvious over the prior art of record. That is not the proper analysis, though. The proper analysis is to determine if there is a connection between the claimed invention and the secondary considerations (such as commercial success), and based on that analysis, does that lead one to conclude that the invention is non-obvious. <u>Ashland Oil, Inc. v. Delta Resins & Refractories, Inc.</u>, 776 F. 2d 281 (Fed. Cir. 1985). Notwithstanding the foregoing, Appellant's previously filed Affidavits, state:

- (a) Clearly, the invention is novel and that is not even at issue (See, all previous Affidavits of Allan Todd Berry, in the Evidence Appendix);
- (b) That the invention, as claimed, is a commercial success with over \$ 1.8 million in sales (See, in particular, the Second Affidavit of Allan Todd Berry).

 Allan Todd Berry, states, in part, in his Second Affidavit, "Those customers

are identified in Exhibits 1 and 2. The invoices total more than \$1.8 million dollars. With over \$1.8 million in sales of my invention, my invention, as the features recited in the claims, is a commercial success." (emphasis supplied). The Appellant has always considered his invention to comprise the major components claimed, and the claims (while narrowed over time) have been comprised of, "The elements of the PLC, the sensors, the data bus communications, the medal flags and the inspection interface button." (See, Affidavit of Allan Todd Berry, this was filed prior to the Second Affidavit).

Clearly, the commercial success is based on the claimed invention; it is not based on advertising, superior workmanship, quality of the invention or the company's reputation and there is evidence otherwise.

The commercial success (and other secondary considerations) should be considered as part of the <u>Graham</u> analysis, notwithstanding the prior art filed, unless, of course, the invention is not novel (which is not the case here). It should be part of the non-obvious test, as stated in <u>Graham</u>.

Appellant believes that the secondary considerations are very important to consider, especially in light of the complexity of this invention and the large number of prior art references being relied on by the PTO. In fact, in the case of In Re Rouffet, 149 F.3d 1350, 47 U.S.P.Q. 2d 1453 (1998), it is clear that secondary considerations are essential components of the obviousness determination. This objective test of non-obviousness includes, but is not limited, to: (1) commercial success; (2) satisfying a long felt but unresolved need; (3) failure of others; (4) unexpected properties of the claimed invention and (5) copying or adoption by others.

Appellant's invention satisfies a long felt need in the industry but this has never been considered or addressed by the PTO. Appellant states as follows:

In Appellant's initial Affidavit he states, in part:

"In January of 2002, China began to put restrictions on the quality of the chicken paws they were receiving from the United States. Since then, many poultry processors ceased producing the paws because there was not a viable method for determining the quality of the feet. The invention of the current patent application, in conjunction with the USDA inspectors input, can accurately determine which paws are acceptable and which are not. Therefore, my invention satisfies the need long felt by the poultry industry. It is the only system readily available that meets the criteria of the existing FSIS Directive 6210.2 as it is written." (See, Evidence Appendix).

Appellant believes that if the secondary considerations are considered (which they have not been), then his invention would be viewed as un-obvious.

d. The "Prior Art" Cited

As previously stated, Appellant does not believe that all the documents cited by the PTO are prior art and can be combined. In fact, Appellant has shown otherwise. The PTO has not shown any suggestion that these documents can be put together at the time of Applicant's invention to form his invention.

With that said, assuming all these documents are "prior art" document, U.S. Patent No. 4,372,099 to Linville, is for a "method of packing poultry." Applicant's invention is for a process to electronically automate the sorting of chicken feet into the category of edible or inedible. Appellant's invention has nothing to do with determining the weight of poultry in a box like Linville. It should not be used as a prior art document. See, In re Clay, 966 F. 2d 656 (Fed Cir. 1992). But for argument purposes, it makes reference to only one flag on a shackle. Appellant's claims circumvent this objection by claiming more than 1 flag.

No prior art document (or all those combined) depict all the elements claimed in Appellant's invention. None of the documents depict a flag on more than one shackle.

With respect to U. S Patent No. 4,150,374 to Brook, at a minimum, it does not depict any flags, an inspection station, an inspection button, a programmable communication card and a means to interface to an inspection station to a programmable means. It does depict, admittedly, sensing devices to count whole birds.

With respect to U.S. Patent Application 2003/0139130A1 to Steffler, at a minimum, it does not depict any flags and the inspection button interfacing with a programmable means.

With respect to U.S. Patent Application 2003/0065414 to van den Nieuwelaar et al., it is only cited by the PTO to depict an inspection station that interfaces with a programmable means. It has nothing to do with a process to electronically automate the sorting of chicken feet into the category of edible or inedible like Applicant's invention.

Last, the German patent (DE 4132830) should not be considered as prior art at all for it depicts no elements claimed in Appellant's invention.

Conclusion to Argument

Appellant's invention is very complex. The PTO has had to find 5 documents and piece them together to try to show that Appellant's invention is unobvious to one skilled in the art. The obvious test, though, must be viewed against the invention as a whole, and when one has to piece so many documents together, it proves, by definition, the invention is unobvious.

Appellant has shown that several of the prior documents relied on by the PTO are not "prior art." Without such documents, the obvious objection made by the PTO falls like a house of cards.

Appellant has also shown that the documents should not be combined because there has been no showing or suggestion made by the PTO that they should be combined. The PTO has used a hindsight analysis to piece together elements of a number of documents to attempt to show Appellant's invention is obvious. However, if the documents cannot be combined (since there is no suggestion shown to do so), then Appellant's invention is un-obvious to one skilled in the art.

Appellant has provided the PTO evidence of commercial success of the invention and evidence of the invention satisfying a long felt need. This evidence has been related to the invention claimed, not due to marketing, advertising, or the like. The PTO did not exam such evidence because it did not compare (in a limited set of cases) to the art of record. Appellant believes that that is not a proper analysis. So, even if the documents are prior art and even if they can be combined, the invention can still be viewed as unobvious based on these secondary considerations.

Finally, all the documents do not depict the invention as presently claimed and Appellant believes that this is unobvious to those skilled in the art.

Appellant has narrowed his claims and has given an opinion that his invention (and associated claims) are un-obvious to one skilled in his art. Appellant has over 20 years of experience in this art.

For the foregoing reasons, Appellant respectively requests that his Appeal be granted with the finding that his claims are not obvious to one skilled in the art and that his claims be allowed.

(viii) Claims Appendix

A Claims Appendix is attached hereto.

(ix) Evidence Appendix

Dated: 8-27-2006

An Evidence Appendix is attached hereto.

(x) Related Proceedings Appendix

There are no related proceedings so therefore there is no such appendix.

Very Respectively,

Joseph G. Mitchell

Title: Patent Attorney

PTO # 40,730

Address:

4521 Derby Lane Smyrna, GA 30082

Phone: 404-943-2981

e-mail: joeymitch@earthlink.net

15

Claims Appendix

EXHIBIT A

<u>Listing of Claims</u> :
Claim 1 (canceled).
Claim 2 (canceled).
Claim 3 (canceled).
Claim 4 (canceled).
Claim 5 (canceled).
Claim 6 (canceled).
Claim 7 (canceled).
Claim 8 (canceled).
Claim 9 (canceled).
Claim 10 (canceled).
Claim 11 (canceled).
Claim 12 (canceled).
Claim 13 (canceled).
Claim 14 (canceled).
Claim 15 (canceled).
Claim 16 (canceled).
Claim 17 (canceled).
Claim 18 (canceled).
Claim 19 (canceled).
Claim 20 (canceled).
Claim 21 (canceled).

Claim 22 (canceled).

Claim 23 (canceled).

Claim 24 (currently amended): An apparatus to electronically automate the sorting of chicken feet in the category of edible or inedible, comprising:

sensors including at least one photoelectric sensor and at least one inductive sensor for tracking the chicken bird in a <u>a first</u> shackle and chicken feet in a <u>a second</u> shackle;

a programmable logic card to track and store information received by said sensors;

a means to communicate between said sensors and said programmable logic card;

at least one inspector reject button communicating with said programmable logic card; and

a flag on at least one first shackle; and

-flag on a flag on at least one second shackle. at least two-shackles.

Claim 25 (currently amended): A process to electronically automate the sorting of chicken feet in the category of edible or inedible, comprising:

sensing, with at least one photoelectric sensor and at least one inductive sensor, a chicken bird in a <u>first</u> shackle and chicken feet in a <u>second</u> shackle;

using a programmable logic card to track and store information received by said sensors;

communicating by a communication means between said sensors and said programmable logic card;

employing at least one inspector reject button communicating with said programmable logic card; and

using at least one flag on a first shackle; and

using at least one flag on a second shackle. at least two shackles.

Evidence Appendix

RULE 132 THIRD AFFIDAVIT

Applicant Allan Todd Berry

Serial No : 10/657,977

Filed: 09/09/2003

Examiner: David J Parsley

Group Art Number 3643

DECLARATION UNDER 37 C.F.R. 1.132

I, Allan Todd Berry, declare and state:

That I am a citizen of the United States.

That I am over the age of eighteen (18) and I have personal knowledge

concerning my testimony.

I am the inventor of the current invention which is the subject matter of the patent

application.

I have been working in the chicken process industry for more than 20 years.

I have reviewed copies of the patents (U.S. Patent No. 4,150,374 to Brook and

U.S. Patent No. 4,372,099 to Linville) and patent applications (No. 2003/0139130 to

Steffler et al. and No. 2003/0065414 to van den Nieuwelaar) in the most recent Patent

Office reply. My invention, as a whole, is not disclosed in any one of these patents or

patent applications based on my review of all the patents and patent applications referred

to in the response from the Patent Office.

Based on my over 20 years of experience in the chicken process industry and my

knowledge in this field, it is my opinion, as one skilled in this industry, that there is not a

motivation or suggestion, to one skilled in this area, to combine these patents and patent

applications, cited by the Patent Office in its most recent response, to produce my

invention.

That the undersigned declares further that all statements made herein are of his own knowledge and that all statements made on information and belief are believed to be true, and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

Further declarant saith not.

Signature

Todd Berry
Print Name

SWORN TO AND SUBSCRIBED before me this (1) day of ______, 2005.

NOTARY PUBLIC, GEORGIA, STATE AT LARGE

My Commission Expires:

NOTARY PUBLIC. HALL COUNTY, GEORGIA

Ruly Dacule

RULE 132 AFFIDAVIT

Applicant: Allan Todd Berry

Serial No.: 10/657,977

Filed: 09/09/2003

Examiner: David J Parsley

Group Art Number: 3643

DECLARATION UNDER 37 C.F.R. 1.132

I, Allan Todd Berry, declare and state:

That I am a citizen of the United States.

That I am over the age of eighteen (18) and I have personal knowledge concerning my testimony.

I am the inventor of the current invention which is the subject matter of the patent application.

The system is described in detail in the patent application but the features, taken together as a whole, are not outlined in any one patent that was part of the response from the Patent Office. The elements of the PLC, the sensors, the data bus communications, the medal flags, and the inspection interface button, together, are not disclosed in any one patent based on my review of all the patents in the response from the Patent Office.

I have been working in the chicken process industry for more than

20 years.

It is my opinion that the invention is a commercial success because we have already sold 18 systems incorporating my invention, and it is currently used in production. Another sign of commercial success is the overwhelming interest I have received through phone calls from poultry companies wanting to know more about the system. I have traveled to numerous companies across the United States to give

presentations and give quotes for the system pricing. I continue to receive telephone calls on a daily basis requesting printed material on the system. In addition, the invention is being considered by USDA officials to use as the basis for writing the new Directive regulations on the process of determining quality of chicken paws.

In January of 2002, China began to put restrictions on the quality of the chicken paws they were receiving from the United States. Since then, many poultry processors ceased producing the paws because there was not a viable method for determining the quality of the feet. The invention of the current patent application, in conjunction with the USDA inspectors input, can accurately determine which paws are acceptable and which are not. Therefore, my invention satisfies the need long felt by the poultry industry. It is the only system readily available that meets the criteria of the existing FSIS Directive 6210.2 as it is written.

That the undersigned declares further that all statements made herein are of his own knowledge and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false

Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

Further declarant saith not.

Signature Signature

Todd Berry
Print Name

SWORN TO AND SUBSCRIBED before me this Hyday of January, 2005.

NOTARY PUBLIC, GEORGIA, STATE AT LARGE

My Commission Expires.
Ruly B. Dan

NOTARY PUBLIC, HALL COUNTY, GEORGIA MY COMMISSION EXPIRES NOVEMBER 17, 2008

RULE 132 SECOND AFFIDAVIT

Applicant: Allan Todd Berry

Serial No.: 10/657,977

Filed: 09/09/2003

Examiner: David J Parsley

Group Art Number: 3643

DECLARATION UNDER 37 C.F.R. 1.132

I. Allan Todd Berry, declare and state:

That I am a citizen of the United States.

That I am over the age of eighteen (18) and I have personal knowledge concerning my testimony.

I am the inventor of the current invention which is the subject matter of the patent application.

I have been working in the chicken process industry for more than 20 years.

I have reviewed copies of the patents and patent applications in the most recent Patent Office reply. My invention, as a whole, is not disclosed in any one patent or patent application based on my review of all the patents and patent applications referred to in the response from the Patent Office.

Based on my over 20 years of experience in the chicken process industry and my knowledge in this field, it is my opinion, as one skilled in this industry, that there is not an indication or suggestion, to one skilled in this area, to combine these patents and patent applications, cited by the Patent Office in its most recent response, to produce my invention.

I have attached hereto a summary sheet of the customers using my invention with associated invoice amounts, and a true and correct copy of the invoices submitted to the customers which are using my invention which is described in my patent application. They are marked as Exhibits 1 and 2, respectively. The invoices are for the purchase of my invention, as such features are claimed and are as described in my patent application, and such invoices are true and correct copies of the invoices sent to the respective customers and are business records which are kept in the ordinary course of business.

My invention, in its unique combination, as described in the patent application and as claimed in my patent application, is a commercial success. It is currently used in production by many customers. Those customers are identified in Exhibits 1 and 2. The invoices total more than \$1.8 million dollars. With over \$1.8 million in sales of my invention, my invention, as the features recited in the claims, is a commercial success.

That the undersigned declares further that all statements made herein are of his own knowledge and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under

Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

Further declarant saith not.

Signature Rock / R

Filhy ToDD Berey Print Name

SWORN TO AND SUBSCRIBED before me this/!/ day of ______, 2005.

NOTARY PUBLIC, GEORGIA, STATE AT LARGE

My Commission Expires:

NOTARY PUBLIC, HALL COUNTY GEORGIA
MY.COMMISSION EXPIRES NOVEMBER 17, 2009

Customer	Invoice	Amount
Pilgrims Pride	2115	63715
Pilgrims Pride	2367	57800
Pilgrims Pride	2383	47800
Pilgrims Pride	2387	95600
Pilgrıms Pride	2409	81600
Tyson Foods	2768	145500
Mountaire Farms	2718	142800
AJC International	3645	91200
George's Inc	3730	36000
Wayne Farms	3772	100080
Wayne Farms	3774	87426
Tyson Foods	3798	82800
Tyson Foods	3878	41100
Keystone Foods	3957	94320
Wayne Farms	4033	55950
Allen Family Foods	4075	49875
Equity Group	4076	98400
Equity Group	4100	53280
George's Inc	4103	36000
George's Inc	4170	131040
Tyson Foods	2817	77000
Foster Farms	2315	61995
Pilgrims Pride	2366	96536
TOTAL		1827817

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929

Main # 770-983-3925 Fax # 770-983-3911

Invoice

DATE	INVOICE #
5/31/2002	2115

	BILL TO
i	PILGRIMS PRIDE CORPORATION PO BOX 5000 PITTSBURG, TX 75686-5000
	ATTN. ACCTS PAYABLE

SHIP TO	
CONAGRA POULTRY CO OF CANTON	
654 UNIVETER RD CANTON GA. 30114	

P.O. #	TERMS	REP	DUE DATE	PROJEC	CT
NON 53471	Net 15	ATB	6/15/2002		
DESCRIF	PTION	<u> </u>	QTY	RATE	AMOUNT
W RECOVERY SYSTEM - PANEL(R BID # 448 CLUDES ALL LABOR AND MATEI NSORS, PUSH BUTTON STATION LAINING les Tax	S) AND PUSH BU	CKETS.	AND	63,715 00	63,715 00
Your business is appreciated!				Total	\$63,715.0

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

DATE	INVOICE #
11/26/2002	2367

BILL TO

PILGRIMS PRIDE CORPORATION PO BOX 5000 PITTSBURG, TX 75686-5000

ATTN: ACCTS PAYABLE

Clinton, AR

PURCHASE ORDER NO.	DUE DATE	REP	TERMS	PROJEC	т
P320003659	11/26/2002	ATB	Due on receipt	Paw Recovery	System
DESCRIPTIO	 N	<u> </u>	QTY	RATE	AMOUNT
PAW RECOVERY SYSTEM - PANEL(SPER BID # 436-F Sales Tax		JTTONS		7 00%	57,800.00
Your business is appreciated!				Total	\$57,800.0

5634 OSCAR GILSTRAP RD CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

DATE	INVOICE#
12/9/2002	2383

BILL TO

PILGRIM'S PRIDE CORPORATION PO BOX 5000 PITTSBURG, TX 75686-0093

ATTN: ACCTS PAYABLE

Chat, TN

PURCHASE ORDER NO.	DUE DATE	REP	TERMS	PROJEC	
CCP 688	12/9/2002	ATB	Due on receipt		
DESCRIPTIO)N		QTY	RATE	AMOUNT
AW RECOVERY SYSTEM - PANELA PER TERMS OF BID # 436-F Gales Tax	S) AND PUSH BU	TTONS		47,800.00	47,800 00
HAPPY HOLIDAYS!				Total	\$47,800 00

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

DATE	INVOICE #
12-10/2002	2387

i	BILL TO
	PILGRIMS PRIDE CORPORATION PO BOX 5000 PITTSBURG, TX 75686-0093
	ATTN: ACCTS PAYABLE

SHIP TO	
CONAGRA 898 BARBER ST. ATHENS, GA. 30610	
ATTENS, GA. 30010	

P.O. #	TERMS	REP	DUE DATE	PROJEC	CT
CER 1193	Due on receipt	ATB	12/10/2002		
	CRIPTION	<u> </u>	QTY	RATE	AMOUNT
PAW RECOVERY SYSTEM - PAPER BID # 436-F Sales Tax		ITTONS		95,600.00	95,600 00
HAPPY HOLIDAYS ¹				Total	\$95,600

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Inv	oi	C	e
-----	----	---	---

DATE	INVOICE #
1/6/2003	2409

	1
BILL TO	
PILGRIM'S PRIDE PO BOX 5000 PITTSBURG, TX 75686	
ATTN ACCTS PAYABLE	

SHIP TO

CONAGRA POULTRY -PLANT MRO STOCKER
GAINESVLE PROC-ATTN MECH STKRM
949 INDUSTRIAL BL VD
GAINESVILLE, GA. 30501

PO#	TERMS	REP	DUE DATE	PROJEC	T
PG32228220	Due on receipt	SEM	1/6/2003		
DESCRI	PTION	i	QTY	RATE	AMOUNT
W RECOVERY SYSTEM - PANEL FR TERMS OF BID # 436-F		TTONS		7.00%	81,600 00
HAPPY NEW YEAR!				Total	

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

DATE	INVOICE #
8/14/2003	2768

Invoice

BILL TO	
TYSON FOODS, INC. PO BOX 2020 SPRINGDALE, AR 72765-2020	
ATTN. ACCTS PAYABLE	

SHIP TO		
TYSON FOODS, INC 19571 WHITFIELD ROAD SEDALIA, MO. 65301		
ATTN: MIKE GINGLER		
	_	

P.O. #	TERMS	REP	DUE DATE	PROJEC	CT
4502092220	Due on receipt	ATB	8/14/2003		
DESCRI	PTION	il_	QTY	RATE	AMOUNT
ER TERMS OF BID # 700-B BERRY PAW RECOVERY SYSTEM B-PH-LH/RH PAW HARVESTER HYDRAULIC POWER UNIT - \$8,500 Sales Tax			1 2 1	120,000 00 8,500 00 8,500 00 7.00%	120,000 00 17,000 00 8,500 00 0 00
Thank you for your business.				Total	\$145,500

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

	Invoice
DATE	INVOICE #
8/4/2003	2718

BILL TO	
MOUNTAIRE FARMS PO BOX 710 SELBYVILLE, DE 19975	
ATTN: ACCTS PAYABLE	

PURCHASE ORDER NO. DUE DATE REP		TERMS	PROJECT		
\$ 3990	8/4/2003	ATB	Due on receipt		
DESCRIPTION			QTY	RATE	AMOUNT
ROGRESS PAYMENT OF 60% DOWN AW RECOVERY SYSTEM - 2 I MAIN -PH-LH/RH PAW HARVESTER MALL REPORTING PROGRAM ales Tax	FOR BID #708		2 2 1	60,000 00 8,000 00 6,800 00 7 00%	120,000 00 16,000 00 6,800 00 0 00
Thank you for your business			Total	\$142,800.0	

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

DATE	INVOICE#
11/11/2004	3645

BILL TO	
AJC INTERNATIONAL, Inc. 5188 Roswell Road Atlanta, GA 30342	

SHIP TO

PETERSON FARMS, INC.
2ND & ROLLER STREET

DECATUR, AR 72722

P.O. #	TERMS	REP	DUE DATE	PROJEC	CT
		ATB	11/11/2004	PETERSON I	FARMS
57035 DESCRI			QTY	RATE	AMOUNT
RMS OF BID #955 AW RECOVERY SYSTEM - PANEL	(S) AND PUSH BU	JTTONS	0.6	110,000 00	66,000 00
to 1 SYSTEM TY. 2 @ \$55,000 -PH-LH/RH PAW HARVESTER			0.6	15,000.00	9,000 00
TY 2@\$7,500 AW PICKERS			0.6	18,000 00	10,800 00
TY. 2 @ \$9,000 TYDRAULIC POWER UNIT-3 STAT	NOF		0.6	9,000 00	5,400 00
2TY 1 @ \$9,000 cales Tax				7.00%	0 00
Your business is appreciated!				Total	\$91,200

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929

Fax # 770-983-3911

DATE	INVOICE #
1/3/2005	3730

	BILL TO
1	GEORGE'S, INC. PO DRAWER G SPRINGDALE, AR 72765-2030

 	_

PO#	TERMS	REP	D	UE DATE	PROJEC	т
99790	Due on receipt	ATB	1/3/2005		Paw Recovery	
	1	L	<u></u>	QTY	RATE	AMOUNT
DESCRI						
ROGRESS PAYMENT OF 60% PER	TERMS OF BID #9	974-B	1			
AW RECOVERY SYSTEM - 1.1 MAICLUDES: TY OF 1 BERRY PAW HARVESTF TY OF 1 BERRY PAW RECOVER Customer is supplying their own Hydra Alterwards, they came back and orderec	ER AND Y SYSTEM @ \$60,	Paw Harve	esters upgrade	06	60,000.00	36,000 00
3 station.					7 00%	0.00
Corrected Copy					Total	\$36,000

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

DATE INVOICE # 1/24/2005 3772

BILL TO	
WAYNE FARMS PO BOX 383 DOBSON, NC 27017	

SHIP TO	
WAYNE FARMS 802 EAST ATKINS STREET	
DOBSON, NC 27017	

P.O #	TERMS	REP	DUE D	ATE	PROJEC	T
40588	Due on receipt	ATB	1/24/2	005		
	CRIPTION			ατίλ	RATE	AMOUNT
ROGRESS PAYMENT OF 60% D		R TERMS	OF			
ROGRESS PAYMENT OF 60% D SID #917-E.	OWN FATNILLY LE	(121414				
BERRY PAW RECOVERY SYSTE	EM - 1:1 MAIN PANEI			0 6	60,000 00	36,000 00
BPH-LH/RH PAW HARVESTER				0.6	9,000.00	5,400 00
TYPE ALTE IC POWER LINIT-2 ST	ATION	NG		0.6	25,000.00	15,000 00
INCLUDES LABOR & MATERIAL TRACK WORK: LABOR & MATERIAL AND ONE ADDITIONAL DRIVE	ERIALS FOR 400' OF F		.INE	06	56,150.00	33,690.00
ALL NECESSARY DRIP PANS FO				0.6	10,800.00	6,480.00
BACK-UP UNLOADER				0.6	3,800.00	2,280 00
DELIVERY OF EQUIPMENT				0.6	800.00	480 00
SURCHARGE FOR INCREASED (FROM \$2 MILLION TO \$3 MILL) INSURANCE LIABIL LION)	ITY COV	ERAGE	1	750 00 7 00%	750.0 0.0
Sales Tax						
Conceted Copy					Total	\$100,080.

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

DATE	INVOICE #
1/24/2005	3774

BILL TO	
WAYNE FARMS PO BOX 69 PENDERGRASS,GA. 30567	
ATTN- ACCTS PAYABLE	

SHIP TO

WAYNE FARMS
PO BOX 69
PENDERGRASS,GA. 30567

ATTN: ACCTS PAYABLE

P.O. #	TERMS	REP	DU	JE DATE	PROJEC	Τ
22684	Due on receipt	ATB	1	^{'24'} 2005		
DESCRIP	TION	L		QTY	RATE	AMOUNT
-		F BID #94	4-R			
ROGRESS PAYMENT OF 60% DOW	N PER TERMS O	I DID " 54			60,000,00	36,000.00
AW RECOVERY SYSTEM - 1:1 MAD	N PANEL			0.6	60,000 00	50,000.00
-PH-LH:RH PAW HARVESTER WIT ONTROL VALVES	Н REJECT СНОТ	E & AIR		0 6	9,000 00	5,400 00
ABOR & MATERIALS FOR INSTAL HACKLES, CHAIN, AND DROP-ROI	LATION OF 290' (DS	OF TRACK	ς,	06	43,500 00	26,100 00
LECTRICAL: LABOR & MATERIAL PANEL, SUPPLY 24 VOLTS TO PAW CABLE TO ALL SENSORS	S FOR 110 VOLT	S TO MAI EVICENE	N T	0 6	19,000 00	11,400 00
ABOR & MATERIALS TO RELOCA NSTALL BERRY PAW HARVESTER WATER LINES, HYDRAULIC LINES LINES.	INCLUDES RE	LOCKIII	10	06	12,960 00	7,776 00
SURCHARGE FOR INCREASED INS	CITO ANCE I IARII	ITY COV	FRAGE	1	750 00	750 00
SURCHARGE FOR INCREASED INS (FROM \$2 MILLION TO \$3 MILLION Sales Tax	n)				7 00%	0.00
Thank you for your business					Total	\$87,426

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527

Main # 770-983-3929 Fax # 770-983-3911

DATE	INVOICE#
2/10/2005	3798

BI	LL TO
PO E	ON FOODS BOX 2020 INGDALE, AR 72765-2020 IL CODE: AR07693

SHIP TO	
NASHVILLE PROCESSING PLANT TYSON FOODS, INC. AR06721 100 E CASSADY STREET NASHVILLE, AR 71852-3392	

P O. #	TERMS	REP	DUE DATE	PROJEC	CT
4503110203	Due on receipt		2/10/2005		
DESCRIPTION			QTY	RATE	AMOUNT
ROGRESS PAYMENT OF 60% D	OWN PER TERMS O	F BID # 8/4			70 000 00
AW RECOVERY SYSTEM - 1.1. TY OF 2 @ \$60,000 EACH	MAIN PANEL(S)		06	120,000.00	72,000.00
EYN REHANGERS			0.6	18,000 00	10,800.00
-PH-LH/RH PAW HAR VESTER OTY OF 2 @ \$9,000 EACH				7.000/	0 00
ONE LEFT / ONE RIGHT				7.00%	0 00
Your business is appreciated!				Total	\$82,800

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929

Fax # 770-983-3911

Invoice

DATE	INVOICE #	
3/24/2005	3878	

BILL TO	
TYSON FOODS PO BOX 2020 SPRINGDALE, AR 72765 MAIL CODE: AR07693	

SHIP TO UNION CITY PROCESSING PLANT TYSON FOODS, INC 2800 EAST TYSON DR UNION CITY, TN 38261

P O. #	TERMS	REP	DUE DATE	PROJEC	τ
	Due on receipt	ATB	3/24/2005		
DESCRIPTION			QTY	RATE	AMOUNT
		r pm #056			
COGRESS PAYMENT OF 60% DOV				(0.000.00	36,000 00
PAW RECOVERY SYSTEM - 1·1 MAIN PANEL WITH STORK REHANGERS 3-PH-LH/RH PAW HARVESTER			0.6	60,000.00	
			0 6	8,500 00 7 00%	5,100 00 0 00
ales Tax					
Your business is appreciated!				Total	\$41,100.0

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

DATE	INVOICE #
4/20/2005	3957

BILL TO	
KEYSTONE FOODS PO BOX 416 ALBANY, KY 42602	

P.O. #	TERMS	REP	DUE DATE	PROJEC	CT
40009	Due on receipt		4/20/2005		
	RIPTION	<u> </u>	QTY	RATE	AMOUNT
AW RECOVERY SYSTEM - MOD			0.6	130,000.00	78,000.00
TY 2 SYSTEMS @ \$65,000 EACH LPH-LH/RH PAW HARVESTER W	.1	E & AIR	06	17,000.00	10,200 00
ONTROLS MODEL BPH-LH/RH DTY. 2 @ \$8,500 EACH HYDRAULIC POWER UNIT - 3 ST	ATION		0.6	10,200.00	6,120.00
MODEL BHPU-3 QTY 1 @ \$10,200 EACH Sales Tax				7.00%	0.00
Thank you for your business.				Total	\$94,320 0

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

DATE	INVOICE #
5/16/2005	4033

-	BILL TO
i	WAYNE FARMS, LLC PO BOX 470 UNION SPRINGS, AL 36089
	ATTN: BRENDA BROOKS / ACCTS PAYABLE

SHIP TO	
WAYNE FARMS, LLC 444 BASKIN STREET SOUTH UNION SPRINGS, AL 36089	

P.O #	TERMS	REP	DUE DATE	PROJEC	CT
46618	Due on receipt		5/16/2005		
DESCRI	PTION	<u>. </u>	QTY	RATE	AMOUNT
COGRESS PAYMENT OF 60% DOW ERRY PAW RECOVERY SYSTEM FORK REHANGERS WITH 348 CH. PH-LEFTHAND PAW HAR VESTER ONTROL VALVES ERRY PAW UNTANGLER (NO CH ERRY FOOTPAD SCRUBBER - 24' YDRAULIC POWER UNIT - 2 STA' ERRY REPORTING PROGRAM ales Tax	VN PER TERMS O - 1 1 MAIN PANEL AIN - WITH REJECT C	, HUTE & A		65,000.00 9,500.00 0.00 3,450.00 8,500.00 6,800.00 7.00%	39,000 00 5,700 00 0 00 2,070 00 5,100.00 4,080 00 0 00
Thank you for your business				Total	\$55,950 C

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929

Fax # 770-983-3911

DATE	INVOICE #
5/31/2005	4075

!	BILL TO
į	ALLEN FAMILY FOODS 126 N SHIPLEY STREET SEAFORD, DE 19973
	ATTN ACCTS PAYABLE

SHIP TO	
ALLEN FAMILY FOODS	
ROUTE 5 HARBESON, DE 19951	

P.O. #	TERMS	RMS REP	DUE DATE	PROJEC	T
Н 037800	Due on receipt	ATB	5/31/2005		
DESCRI	PTION		QTY	RATE	AMOUNT
ROGRESS PAYMENT OF 60% DOW AW RECOVERY SYSTEM - 1:2 PH-LH/RH PAW HARVESTER WIT DNTROL VALVES YDRAULIC POWER UNIT - 2 STAT STIMATED SHIPPING ales Tax	N PER TERMS O		8-C 0 6 0 6 0 6 0 6	65,000 00 8,500 00 1,625 00 7.00%	39,000 00 5,100 00 4,800 00 975.00 0 00
Thank you for your business				Total	\$49,875 0

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929

Fax # 770-983-3911

DATE	INVOICE #
5/31/2005	4076

Invoice

	i
BILL TO	
EQUITY GROUP- GA DIVISION, LLC FRESH MAIN PROCESSING PO BOX 588 CAMILLA, GA 31730 ATTN: ACCTS PAYABLE	

SHIP TO

EQUITY GROUP- GA DIVISION, LLC
7220 HWY US 19 NORTH
FRESH MAIN PROCESSING
CAMILLA, GA 31730

P.O. #	TERMS	REP	D	UE DATE	PROJ	ECT
11333	Due on receipt	ATB		5/31/2005		
DESCRI	PTION			ΩΤΥ	RATE	AMOUNT
PROGRESS PAYMENT OF 60% DOW PAW RECOVERY SYSTEM - MEYN QTY. 2 @ \$65,000 EACH B-PH-LH-RH PAW HAR VESTER WIT CONTROL QTY. 2 @ \$8,500 EACH REPORTING PROGRAM QTY. 1 @ \$6,800 EACH HYDRAULIC POWER UNIT - 3 STAT QTY. 1 @ \$10,200 EACH Sales Tax	'N PER TERMS O 1:1 SYSTEM 'H REJECT CHUT			0.6 0.6 0.6	130,000 00 17,000 CU 6,800 00 10,200.00 7.00%	78,000.00 10,200.00 4,080.00 6,120.00 0.00
Your business is appreciated!					Total	\$98.400 00

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929

Fax # 770-983-3911

Invoice

DATE	INVOICE#		
6/9/2005	4100		

BILL TO

EQUITY GROUP-EUFAULA DIVISION, LLC
57 MELVIN CLARK ROAD
BAKER HILL, AL 36027
ATTN: ACCTS PAYABLE

SHIP TO

EQUITY GROUP-EUFAULA DIVISION, LLC 57 MELVIN CLARK ROAD BAKER HILL, AL 36027

ATTN: ACCTS PAYABLE

PO#	TERMS	REP	DUE DATE	PROJEC	CT
102218	Due on receipt		6/9/2005		
	SCRIPTION	<u> </u>	QTY	RATE	AMOUNT
ROGRESS PAYMENT OF 60% AW RECOVERY SYSTEM - I PH-LH-RH PAW HARVESTE ONTROL VALVES EPORTING PROGRAM YDRAULIC POWER UNIT - :	6 PER TERMS OF BID #9 2 MAIN PANEL R WITH REJECT CHUT		06 06 06	65,000.00 8,500.00 6,800.00 7.00%	39,000 00 5,100 00 4,080 00 5,100 00 0 00
Your business is appreciated!				Total	\$53,280.0

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

DATE	INVOICE #
6/9/2005	4103

BILL TO	
GEORGE'S, INC PO DRAWER G SPRINGDALE, AR 72765-2030	
1	

SHIP TO	
GEORGE'S, INC 1306 N KANSAS SPRINGDALE, AR 72764	

P.O. #	TERMS	REP	DUE DATE	PROJEC	CT
102218	Due on receipt	ATB	6/9/2005		
DESCRIF	PTION	<u> </u>	QTY	RATE	TAMOUNT
COGRESS PAYMENT OF 60% PER TRCHASE OF 2ND SYSTEM AW RECOVERY SYSTEM - 1:1 MAI CLUDES: TY OF 1 - BERRY PAW HARVEST TY. OF 1 - BERRY PAW RECOVER EHANGERS ales Tax	TERMS OF BID # IN PANEL FR		0.6	60,000 00	36,000 00
Thank you for your business.				Total	\$36,000.0

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

DATE	INVOICE #
6/30/2005	4170

	1
BILL TO	
GEORGE'S, INC PO DRAWER G SPRINGDALE, AR 72765	
ATTN: ACCTS PAYABLE	

SHIP TO	
GEORGE'S, INC ROUTE 1, BOX 1454 CASSVILLE, MO 65625	

P.O #	TERMS	REP	DU	JE DATE	PROJE	ECT
99246022	Due on receipt	АТВ	6	/30/2005		
DESCRIF	PTION			QTY	RATE	AMOUNT
PROGRESS PAYMENT OF 60% DOWN PER TERMS OF BID 983 / DATED 01-03-05 PAW RECOVERY SYSTEM 1:1 MAIN PANELS QTY 3 @ \$60,000 EACH B-PH-LH/RH PAW HARVESTER WITH REJECT CHUTE & AIR CONTROL VALVES QTY 3 @ \$9,000 EACH HYDRAULIC POWER UNIT - 4 STATION QTY 1 @ \$12,000 EACH PAW PICKER QTY 3 @ \$8,800 EACH MULTI-PURCHASE SPECIAL PRICING PER TODD BERRY Sales Tax				0 6 3 0 6 0.6	180,000 00 9,000.00 12,000 00 26,400 00 -27,000.00 7.00%	108,000 00 27,000 00 7,200 00 15,840 00 -27,000 00 0.00
Thank you for your business.					Total	\$131,040 00

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

į	DATE	INVOICE #		
	9/23/2003	2817		

BILL TO	
LYSON FOODS	
PO BOX 2020	
SPRINGDALE, AR 72765-2020	
MAIL CODE: AR07693	
1	
1	

SHIP TO

GRANNIS PROCESSING PLAN
TYSON FOODS, INC
AR06021
HWY. 71 N
GRANNIS, AR 71944

P.O. #	TERMS	REP	DUE DATE	PROJ	ECT
4502162672	Due on receipt	ATB	9/23/2003	GRANN	TS, AR
DESC	RIPTION		QTY	RATE	AMOUNT
PER TERMS OF BID #709					
PAW RECOVERY SYSTEM - PANI 2.1 MAIN PANEL BERRY PAW HARVESTER BERRY 2 STATION HYDRAULIC I Sales Tax	TTONS			60,000.00 8,500 00 8,500 00 0.00	
Thank you for your business.				Total	\$77,000.00

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

DATE	INVOICE #			
10/10/2002	2315			

BILL TO	
FOSTER FARMS	
PO BOX 457	
LIVINGSTON, CA 95334	
ATTN ACCTS PAYABLE	

SHIP TO

KELSO CHICKEN PROCESSING
FOSTER FARMS
1700 SOUTH 13TH AVE
KELSO, WA 98626

P.O #	TERMS	REP	DUE DATE 10/10/2002		PROJEC	ECT	
4500267839	Due on receipt	ATB			Paw Recovery	System	
DESCRIPTION				QTY	RATE	AMOUNT	
PER BID # 516							
PER BID # 516 PAW RECOVERY SYSTEM - PANEL(S) AND PUSH BUTTONS 1:1 MAIN PANEL REJECT CHUTE AIR VALVE CONTROL BOX PUSH BUTTON INSPECTOR STATIONS MODIFY EXISTING PAW HARVESTER PAYMENT OF 60% - ESTIMATED TRAVEL EXPENSES OF \$9,000.00 Sales Tax		00.00	1 1 4 1 1	1,080 00 537.00 2,400 00 1,080 00 5,400 00 7.00%	1,080 00 537 00 9,600.00 1,080.00 5,400 00 0.00		
Your business is appreciated!					Total	\$61,995.00	

5634 OSCAR GILSTRAP RD. CLERMONT, GEORGIA 30527 Main # 770-983-3929 Fax # 770-983-3911

Invoice

DATE	INVOICE #		
11/22/2002	2366		

BILL TO	
PILGRIMS PRIDE CORPORATION PO BOX 5000 PITTSBURG, TX 75686-0093	
ATTN. ACCTS PAYABLE	

SHIP TO

CONAGRA POULTRY
1810 SOUTHWEST AVE.
EL DORADO, AR 71730

ATTN. ELD-PLT MAINTENANCE WHSE

P O. #	TERMS	REP	DUE DATE 11/22/2002		PROJE	PROJECT	
PE32338015	Due on receipt	ATB					
DESCRIPTION			QTY	RATE	AMOUNT		
PAW RECOVERY SYSTEM - PANEL(S) AND PUSH BUTTONS]	81,600.00	81,600.00		
ESTIMATED TRAVEL EXPENSES Sales Tax]	14,936.40 7.00%	14,936.40 0.00	
					Total	\$96,536.40	

Copy of Patent Application



(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2005/0059332 A1 Berry

Mar. 17, 2005 (43) Pub. Date:

(54) PROCESS TO ELECTRONICALLY AUTOMATE THE SORTING OF CHICKEN FEET IN THE CATEGORY OF EDIBLE OR INEDIBLE

(76) Inventor: Allan Todd Berry, Gainesville, GA (US)

> Correspondence Address: Joseph G. Mitchell, Esq. 4521 Derby Lane Smyrna, GA 30082 (US)

10/657,977 (21) Appl. No.:

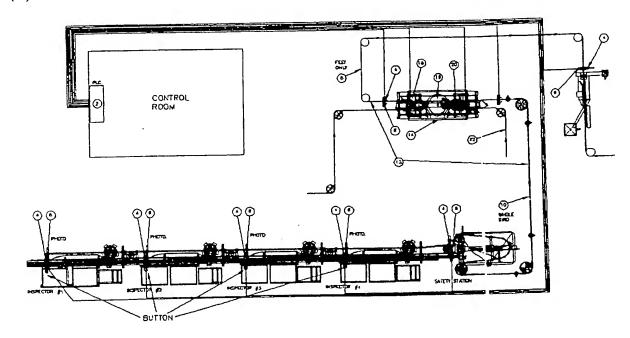
Sep. 9, 2003 (22) Filed:

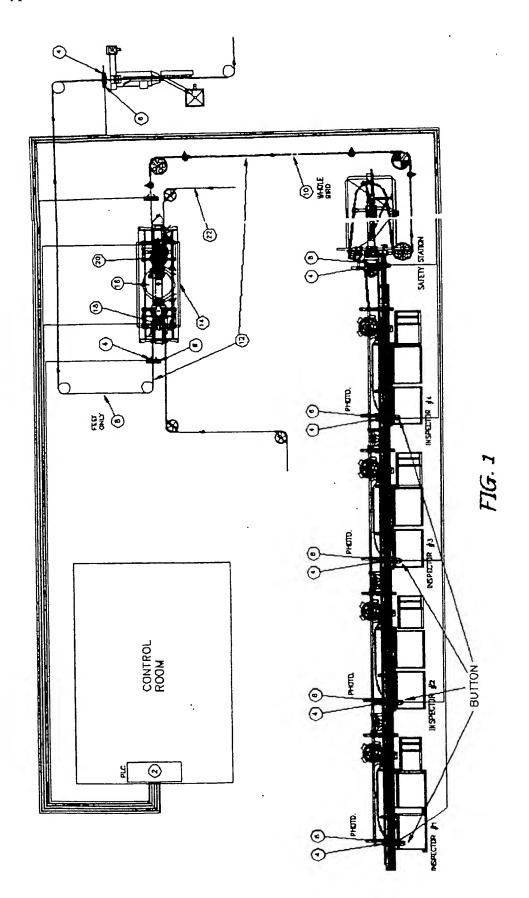
Publication Classification

(51) Int. Cl.7 A22C 18/00; A22C 21/00

ABSTRACT (57)

The invention of this patent is a process to electronically automate the sorting of chicken feet in the category of edible or inedible. The invention employs electronic sensors and a programmable logic card to maintain the identity between all processed chickens and their respective feet. When the processed chickens are inspected by the USDA or plant quality inspectors, a determination is made as to whether the respective feet from the chicken are edible or inedible. If the feet are inedible, the inspector presses a button that interfaces with the subject invention and the status of the feet are electronically set to inedible. The system matches the inedible feet to the processed chicken. In this way, the feet and associated processed chicken are electronically maintained by means of the subject invention.





PROCESS TO ELECTRONICALLY AUTOMATE THE SORTING OF CHICKEN FEET IN THE CATEGORY OF EDIBLE OR INEDIBLE

BACKGROUND OF THE INVENTION

[0001] 1) Field of the Invention

[0002] The field of invention relates to a process to electronically sort chicken feet into the category of either edible or inedible. More particularly, the invention utilizes electronic tracking sensors to maintain identity between all processed chickens and their respective feet.

[0003] 2) Description of Prior Art

[0004] While the prior art includes methods and apparatus for performing various poultry processing operations, insofar as the applicants are aware there is no known method that utilizes an electronic tracking system to maintain identity between all processed chickens and their respective feet.

[0005] The demand for poultry, and especially chicken feet as a specialty food item, particularly in the Orient, is relatively great. Approximately three hundred tons per month are currently being exported from the United States. However, the supply of poultry feet is limited and the cost is kept relatively high because of the lack of a fully automatic method and apparatus for processing such poultry parts into edible and inedible parts. Conventional practice calls for the poultry feet be sorted into edible and inedible when an inspector, from the USDA or plant quality facility, determines that the chicken is edible or inedible. However, the labor required to manually remove the feet from the conveyor lines subsequent to the inspector's review of the chicken makes the cost of poultry process of the manual method unattractive.

[0006] Therefore, it has long been known that it would be desirable to have a method to electronically sort the feet into the category of edible and inedible when the chicken is inspected and determined to be either edible or inedible. The invention thus provides for the processing of poultry in an automatic, dependable and economical fashion so as to permit the sale of such chicken parts at a commercially acceptable price and which has particular utility in the processing of poultry feet.

SUMMARY OF THE INVENTION

[0007] Poultry processing facilities utilize motor driven chains to convey whole chickens, (also referred to as whole birds) and chicken feet throughout the facility. Primarily, there are two main types of these chain lines in a facility. The first is the picking line whereby live chickens are hung by their feet, killed, and preprocessed. This is where live chickens are inserted into the process by being hung by their feet in a shackle. There is only one chicken per shackle. After the chickens are preprocessed, the chicken feet are cut The whole birds are then automatically transferred from the picking line to the second type of line commonly called the eviscerating line. This automatic transfer is accomplished using a machine called an automatic rehanger. An automatic rehanger is a machine with "floating" trolleys (or carriers). As the picking line moves, a trolley is picked up and moved at picking line speed. When the chicken feet are cut, the chicken is no longer attached to the picking line. The 63the trolleys passing above the inductive proximity sensors.

53

chicken is then supported by a trolley. The feet from the chicken remain on the shackle on the picking line and are then transported towards the paw or chicken foot harvester for automatic unloading from the picking line for edible or 5 inedible sorting. The trolley on the automatic rehanger is moved towards the eviscerating line. As the eviscerating line moves, a trolley is picked up and moved at eviscerating line speed. As the eviscerating line moves, a trolley is aligned with a shackle on the eviscerating line. The automatic crehanger has an arm that contacts the whole bird, thus forcing it into a shackle on the eviscerating line. Each whole bird is carried through the eviscerating process on the eviscerating line. After the whole birds are opened on the eviscerating line, the birds are then presented to USDA or 5plant quality inspectors while still suspended from the eviscerating line. The inspector makes a determination as to the edible or inedible status of the whole bird and thusly the respective feet.

[0008] With the foregoing background, the applicants' 20 invention comprises an industrial programmable logic controller (PLC) receiving input data from photoelectric and inductive sensors located at various locations on the picking and eviscerating lines. The PLC has been programmed with an electronic model of the process. The photoelectric sensors 25monitor line movement and verify presence of chickens in shackles. The inductive sensors monitor trolley movement on the automatic rehanger. These sensors send signals back to the PLC via data bus communications. The PLC interprets the sensor data and updates the internal electronic model. BEEach sensor has diagnostics built-in them and will alert the PLC of a malfunction. If the system detects a malfunction, it will automatically fail to a safe position, thus rejecting all feet as inedible. Each chicken or whole bird and associated chicken feet are assigned a memory location in the PLC, 35 which will follow the chicken and associated chicken feet throughout the process. The process uses the sensors to verify the tracking calibration is correct.

[0009] A primary feature of the invention is that it maintains synchronization between the shackle location of the itixhicken feet and the shackle location of the whole bird. The system verifies the synchronization at various points throughout the process.

[0010] Photoelectric sensors placed on the picking line detect the presence of whole chickens on the shackles. If a 45 chicken is detected on a shackle, a unique electronic identification tag (ID) is assigned to the chicken's shackle location. As the picking line moves, the photoelectric sensors detect shackles passing in front of its location and the electronic model in the PLC is updated as to the new 50 position. As a given chicken arrives at the entrance to the automatic rehanger, it is separated from its feet and picked up by a trolley on the rehanger. When the trolley picks up the chicken, an inductive sensor verifies that a trolley was present at the transition point and transfers the chicken ID to and the chickens are separated from their respective feet. 55 the automatic rehanger model. As the trolley is moved through the automatic rehanger, its position is tracked continuously. When the trolley reaches the point at which the chickens are transferred to the eviscerating line, a second inductive sensor detects the trolley. At this point, the chicken GO ID is transferred from the automatic rehanger model to the eviscerating line model. The automatic rehanger model uses metal flags mounted on each trolley, except for one, to count

The one trolley that does not have the flag is used to maintain synchronization between the actual positions of the trolleys and the trolley positions in the automatic rehanger electronic model. As the eviscerating line moves, the photoelectric sensors detect shackles passing in front of its location and the electronic model in the PLC is updated as to the new position. Directly after the chicken is transferred to the eviscerating line, a set of photoelectric sensors is positioned to detect the presence of the whole birds. The photoelectric sensors compares which chickens successfully were transferred to the eviscerating line verses the electronic model in the PLC.

[0011] The system also monitors the presence of the chickens directly before the inspector station locations. Another set of photoelectric sensors compares which chickens are detected at this point to the electronic model in the PLC. When the whole birds pass the inspectors, a determination is made as to whether the feet from that chicken are edible or inedible. If the chicken feet are edible, no action is taken by the inspector. If no action is taken by the operator and the chicken feet from the bird in front of the inspector are not "Unknown", the chicken feet will be sorted to the edible bin. If the chicken feet are determined to be inedible, the inspector will press a button located at the inspector's station. This button interfaces with the system and then the system identifies the ID of the whole bird and locates its chicken feet will be electronically set to "Inedible".

[0012] The key to the invention being able to constantly identify the whole bird and the chicken feet relies on the number of line shackles between tracking points so that the electronic model will exactly match the actual process.

[0013] The system of the subject invention automatically verifies the number of line shackles each time the chains make a revolution through the process. There are large metal flags attached to one shackle on each picking line and tored by the system, the electronic model is verified against the actual line data measured by the photoelectric sensors and is changed if some line stretch has occurred.

[0014] The invention resides not in any one of these features per se, but rather in the particular combination of all 40 of them herein disclosed and claimed, and it is distinguished from the prior art in this particular combination of all its structures for the functions specified.

[0015] There has thus been outlined, rather broadly, the important features of the invention in order that the detailed 45 description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are, of course, additional features of the invention that will be described hereinafter and which will form the subject matter of the claims appended hereto. 50 Those skilled in the art will appreciate that the conception, upon which this disclosure is based, may readily be utilized as a basis for designing of other structures, methods and systems for carrying out the several purposes of the present invention. It is important, therefore, that the claims be 55 regarded as including such equivalent constructions insofar as they do not depart from the spirit and scope of the present invention.

[0016] Further, the purpose of the foregoing abstract is to enable the U.S. Patent and Trademark Office and the public & automatic rehanger. These photoelectric sensors 4 and

 $\mathbb E$

generally, and especially the scientists, engineers and practitioners in the art who are familiar with patent or legal terms or phraseology, to determine quickly from a cursory inspection the nature and essence of the technical disclosure of the application. The abstract is neither intended to define the invention of the application, which is measured by the claims, nor is it intended to be limiting as to the scope of the invention in any way.

[0017] It is therefore an object of the present invention to provide a new and improved process to electronically automate the sorting of chicken feet in the category of edible or inedible.

[0018] Another object of the present invention is to provide such a method and apparatus which permits the pro-15 cessing of poultry parts and particularly poultry feet at a reasonable cost.

[0019] Another object is to provide such a method and apparatus that can easily be integrated into existing poultry processing lines to operate cooperatively therewith.

20[0020] Another object is to provide such a method and apparatus that operate rapidly, automatically identify edible and inedible chicken feet.

[0021] Another object is to provide such a method and apparatus that are well suited for use with existing methods associated chicken feet on the picking line. The status of the 25of sanitation and waste disposal in commercial poultry processing plants.

> [0022] Further objects and advantages are to provide improved elements and arrangements thereof in an apparatus for the purposes described which are dependable, economi-30 cal, durable and fully effective in accomplishing its intended purposes.

[0023] These together with other objects of the invention, along with the various features of novelty that characterize the invention, are pointed out with particularity in the claims eviscerating line. As this flag passes different points moni- 25 annexed to and forming a part of this disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its use, reference should be had to accompanying drawing and descriptive matter that is illustrated the preferred embodiment of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0024] The invention will be better understood based on the following detailed description. Such description makes reference to the annexed drawing wherein:

[0025] FIG. 1 shows a diagrammatic view of the invention.

DESCRIPTION OF THE PREFERRED **EMBODIMENT**

[0026] With reference now to the drawing, and in particular FIG. 1, the applicants' invention comprises an industrial programmable logic controller (PLC) 2 receiving input data from photoelectric sensors 4 and inductive sensors 6 located at various locations on the picking lines 8 and eviscerating lines 10. The PLC 2 has been programmed with an electronic model of the process. The photoelectric sensors 4 monitor line movement and verify presence of chickens in shackles. The inductive sensors 6 monitor trolley movement on the

inductive sensors 6, send signals back to the PLC 2 via data bus communications. The PLC 2 interprets the sensor data and updates the internal electronic model. Each sensor has diagnostics built-in them and will alert the PLC 2 of a malfunction. If the system detects a malfunction, it will automatically fail to a safe position, thus rejecting all feet as

[0027] A primary feature of the invention is that it maintains synchronization between the shackle 12 location of the chicken feet and the shackle 12 location of the whole bird. If a whole bird is removed from its shackle 12 location, then the synchronization between the chicken feet and the whole bird will be lost. The system verifies the synchronization at various points throughout the process. If the synchronization is lost, the electronic status of the chicken feet will be set to "Unknown". "Unknown" feet are rejected into the inedible bin when they past through the paw or chicken feet harvester because a positive determination cannot be made as to the edible or inedible status of such feet.

[0028] Photoelectric sensors 4 placed on the picking line 8 detect the presence of whole chickens on the shackles 12. If a chicken is detected on a shackle 12, a unique electronic identification tag (ID) is assigned to the chicken's shackle 12 location. If a shackle 12 does not contain a chicken, the .25 feet will be electronically set to "Inedible". The key to the shackle 12 location is assigned as an empty shackle and tracked throughout the process. As the picking line 8 moves, the photoelectric sensors 4 detect shackles 12 passing in front of its location and the electronic model in the PLC 2 at the entrance to the automatic rehanger 14, it is separated 30 [0029] Additionally, due to the fact that the picking line 8 from its feet and picked up by a trolley 16 on the rehanger 14. When the trolley 16 picks up the chicken, an inductive proximity sensor 18 verifies that a trolley 16 was present at automatic rehanger 14 model. If a whole bird did not get 3 5the process. There are large metal flags 22 attached to one the transition point and transfers the chicken ID to the picked up by a trolley 16, and therefore did not get transferred to the automatic rehanger 14, the status of the feet for that chicken will be set to "Untracked". As the trolley 16 is tracked continuously. When the trolley 16 reaches the point 49 changed if some line stretch has occurred. moved through the automatic rehanger 14, its position is at which the chickens are transferred to the eviscerating line 10, a second inductive proximity sensor 20 detects the trolley 16. At this point, the chicken ID is transferred from the automatic rehanger 14 model to the eviscerating line model. The automatic rehanger 14 model uses metal flags 22 mounted on each trolley 16, except for one, to count the trolleys 16 passing above the inductive proximity sensors. The one trolley 16 that does not have the flag is used to maintain synchronization between the actual positions of the trolleys 16 and the trolley positions in the automatic 5 rehanger 14 model. As the eviscerating line 10 moves, the photoelectric sensors 4 detect shackles 12 passing in front of its location and the electronic model in the PLC 2 is updated as to the new position. Directly after the chicken is transferred to the eviscerating line 10, a set of photoelectric sensors 4 is positioned to detect the presence of the whole birds. Because the automatic rehanger 14 will typically fail to successfully transfer about 5% of the whole birds, this set of photoelectric sensors 4 compares which chickens successfully were transferred to the eviscerating line 10 verses not successfully transferred to the correct eviscerating line 10 shackle 12, the system will electronically set the status of the feet that came from that whole bird to "Unknown". The 63

13

system also monitors the presence of the chickens directly before the inspector station locations. Another set of photoelectric sensors 4 compares which chickens are detected at this point to the electronic model in the PLC 2. If a given whole bird is not present and the electronic model shows that a whole bird should be on that shackle 12, the system will electronically set the status of the feet that came from that whole bird to "Unknown". If the picking line 8 stops running and the eviscerating line 10 continues to run, the feet from o any given bird may reach the paw or chicken feet harvester

before the whole birds have been graded by the inspectors. Because these feet have to be unloaded, the status of the feet whose whole bird have not yet passed by the inspector stations will also be electronically set to "Unknown". When

15 the whole birds pass the inspectors, a determination is made as to whether the feet from that chicken are edible or inedible. If the fect are edible, no action is taken by the inspector. If no action is taken by the operator and the feet from the bird in front of the inspector are not "Unknown",

20the feet will be sorted to the edible bin If the feet are determined to be inedible, the inspector will press a button located at their station. This button interfaces with the system and then the system identifies the ID of the whole bird and locates its feet on the picking line. The status of the

invention being able to constantly identify the whole bird and the chicken feet relies on the number of line shackles 12 between tracking points so that the electronic model will exactly match the actual process.

stretch will occur over time. The subject invention automatically corrects for this issue by verifying the number of line shackles 12 each time the chains make a revolution through

As this metal flag 22 passes different points monitored by the system, the electronic model is verified against the actual line data measured by the photoelectric sensors 4 and is

[0030] With respect to the above description then, it is to be realized that the optimum dimensional relationships for the invention to include variations in size, materials, shape, form, function and manner of operation, assembly and use, 45 are deemed readily apparent and obvious to one skilled in

the art, and all equivalent relationships to those skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by the present invention.

[0031] Thus, the foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and 55accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.

What is claimed as being new and desired to be protected by Letters Patent of the United States is as follows:

- 1. An apparatus to electronically automate the sorting of the electronic model in the PLC 2. If a given whole bird was Cochicken feet in the category of edible or inedible, compris
 - a sensing means for tracking the chicken feet and the associated processed chicken;

- a programmable means to track and store information received by said sensing means, and
- a communication means between said sensing means and said programmable means.
- 2. An apparatus according to claim 1, wherein said sensing means comprises at least one photoelectric sensor and at least one inductive sensor.
- 3. An apparatus according to claim 1, wherein said programmable means comprises a programmable logic card.
- 4. An apparatus according to claim 1, wherein said communication means comprises a data bus communication cable.
- 5. An apparatus according to claim 2, wherein said photoelectric sensor monitors chicken line movement and said inductive sensor monitor trolley movement.
- 6. An apparatus according to claim 1, wherein said programmable means receives reject information from an inspector reject button and compares said reject information to the information received from said sensing means.
- 7 An apparatus according to claim 1, wherein said programmable means compares said information received from said sensing means to an electronic model stored in said programmable means.
- 8. A process to electronically automate the sorting of chicken feet in the category of edible or inedible, comprising:
 - a) monitoring chicken line movement using at least one photoelectric sensor;
 - b) monitoring trolley movement using at least one inductive sensor;
 - c) transferring information received from said photoelectric sensor and said inductive sensor to a programming means; and
 - d) identifying, when the chicken feet are rejected as inedible, using said programming means, the processed chicken with its associated inedible chicken feet.
- 9. A process according to claim 8 wherein said programming means is a programmable logic card.

- 10. A process according to claim 8 wherein said photoelectric sensor monitors line movement and verify the presence of chickens in shackles.
- 11. A process according to claim 9 wherein said programmable logic card monitors its electronic programmed model of the chicken lines against the actual chicken line data measured by said photoelectric sensor and said inductive sensor.
- 12. A process to electronically automate the sorting of chicken feet in the category of edible or inedible, comprising:
 - a) transferring input data from photoelectric sensors and inductive sensors located at various locations on at least one chicken process line;
 - b) receiving said input data from said photoelectric sensors and said inductive sensors into a programming means;
 - c) interpreting the data in said programming means and updating the programmed internal electronic model in said programming means;
 - d) synchronizing the location of the chicken feet and the location of the processed chicken in a said programming means;
 - e) interfacing with the inspector reject button so that when the chicken feet are determined to be inedible, then said programming means identifies the processed chicken and its associated inedible chicken feet.
- 13. A process according to claim 12 wherein said programming means is a programmable logic card.
- 14. A process according to claim 12 wherein said photoelectric sensors monitor line movement and verify the presence of chickens in shackles.
- 15. A process according to claim 13 wherein said programmable logic card monitors its electronic programmed model of the chicken lines against the actual chicken line data measured by said photoelectric sensor and said inductive sensor.

* * * *